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| <p>UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity) (Only for new nonprovisional applications under 37 CFR 1.53(b))</p> | <p>Docket No. 1038-1221 MIS;jb</p> |
| <p>Total Pages in this Submission 4</p> | |
| <p>TO THE ASSISTANT COMMISSIONER FOR PATENTS Box Patent Application Washington, D.C. 20231</p> | |
| <p>Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:</p> <div style="border: 1px solid black; padding: 5px; min-height: 100px; margin-bottom: 10px;"> TRANSFERRIN RECEPTOR GENES </div> <p>and invented by:</p> <div style="border: 1px solid black; padding: 5px; min-height: 100px; margin-bottom: 10px;"> Sheena M. Loosmore, et al. </div> | |
| <p>If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:</p> <p><input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <u>08/649,518</u></p> <p>Which is a:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input checked="" type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <u>08/483,577</u></p> <p>Which is a:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input checked="" type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <u>08/337,483</u></p> | |
| <p>Enclosed are:</p> <p style="text-align: center;">Application Elements</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Filing fee as calculated and transmitted as described below 2. <input checked="" type="checkbox"/> Specification having <u>90</u> pages and including the following: <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> Descriptive Title of the Invention b. <input checked="" type="checkbox"/> Cross References to Related Applications (<i>if applicable</i>) c. <input type="checkbox"/> Statement Regarding Federally-sponsored Research/Development (<i>if applicable</i>) d. <input type="checkbox"/> Reference to Microfiche Appendix (<i>if applicable</i>) e. <input checked="" type="checkbox"/> Background of the Invention f. <input checked="" type="checkbox"/> Brief Summary of the Invention g. <input checked="" type="checkbox"/> Brief Description of the Drawings (<i>if drawings filed</i>) h. <input checked="" type="checkbox"/> Detailed Description i. <input checked="" type="checkbox"/> Claim(s) as Classified Below j. <input checked="" type="checkbox"/> Abstract of the Disclosure | |

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1038-1221 MIS;jb

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4

Application Elements (Continued)

3. Drawing(s) (when necessary as prescribed by 35 USC 113)
 - a. Formal Number of Sheets 143
 - b. Informal Number of Sheets _____
4. Oath or Declaration
 - a. Newly executed (original or copy) Unexecuted
 - b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
 - c. With Power of Attorney Without Power of Attorney
 - d. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. Computer Program in Microfiche (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
 - a. Paper Copy
 - b. Computer Readable Copy (identical to computer copy)
 - c. Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. Assignment Papers (cover sheet & document(s))
9. 37 CFR 3.73(B) Statement (when there is an assignee)
10. English Translation Document (if applicable)
11. Information Disclosure Statement/PTO-1449 Copies of IDS Citations
12. Preliminary Amendment
13. Acknowledgment postcard
14. Certificate of Mailing

First Class Express Mail (Specify Label No.): _____

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(Large Entity)

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Accompanying Application Parts (Continued)

15. Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. Additional Enclosures *(please identify below):*

Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

17. Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

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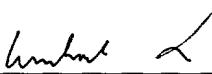
Fee Calculation and Transmittal

CLAIMS AS FILED

| For | #Filed | #Allowed | #Extra | Rate | Fee |
|---|-------------------------------------|----------|--------|------------------|------------|
| Total Claims | 19 | - 20 = | 0 | x \$18.00 | \$0.00 |
| Indep. Claims | 5 | - 3 = | 2 | x \$84.00 | \$168.00 |
| Multiple Dependent Claims (check if applicable) | <input checked="" type="checkbox"/> | | | | \$280.00 |
| | | | | BASIC FEE | \$740.00 |
| OTHER FEE (specify purpose) | | | | | \$0.00 |
| | | | | TOTAL FILING FEE | \$1,188.00 |

A check in the amount of \$1,188.00 to cover the filing fee is enclosed.
 The Commissioner is hereby authorized to charge and credit Deposit Account No. 192253 as described below. A duplicate copy of this sheet is enclosed.

Charge the amount of _____ as filing fee.
 Credit any overpayment.
 Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).



Signature

Michael I. Stewart (Reg. No. 24,973)
Sim & McBurney
6th Floor, 330 University Avenue
Toronto, Ontario
Canada, M5G 1R7.

Dated: January 11, 2002



24223

PATENT TRADEMARK OFFICE

cc:

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

\$1,188.00

Complete if Known

| | |
|----------------------|--------------------|
| Application Number | |
| Filing Date | |
| First Named Inventor | Sheena M. Loosmore |
| Examiner Name | |
| Group Art Unit | |
| Attorney Docket No. | 1038-1221 MIS:jb |

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number Deposit Account Name Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 Applicant claims small entity status. See 37 CFR § 1.27

2. Payment Enclosed:

Check Credit card Money Order Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|-------------------------------|---------------------------------------|
| 101 | 740 | 201 370 Utility filing fee | <input type="text" value="740.00"/> |
| 106 | 330 | 206 165 Design filing fee | <input type="text"/> |
| 107 | 510 | 207 255 Plant filing fee | <input type="text"/> |
| 108 | 740 | 208 370 Reissue filing fee | <input type="text"/> |
| 114 | 160 | 214 80 Provisional filing fee | <input type="text"/> |
| SUBTOTAL (1) | | | <input type="text" value="\$740.00"/> |

2. EXTRA CLAIM FEES

| | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|---|---------------------------------------|
| Total Claims | 19 | -20** = 0 X <input type="text"/> | = <input type="text" value="0.00"/> |
| Independent Claims | 5 | -3** = 2 X <input type="text" value="84.00"/> | = <input type="text" value="168.00"/> |
| Multiple Dependent | | | = <input type="text" value="280.00"/> |

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|--|---------------------------------------|
| 103 | 18 | 203 9 Claims in excess of 20 | <input type="text"/> |
| 102 | 84 | 202 42 Independent claims in excess of 3 | <input type="text"/> |
| 104 | 280 | 204 140 Multiple dependent claim, if not paid | <input type="text"/> |
| 109 | 84 | 209 42 ** Reissue independent claims over original patent | <input type="text"/> |
| 110 | 18 | 210 9 ** Reissue claims in excess of 20 and over original patent | <input type="text"/> |
| SUBTOTAL (2) | | | <input type="text" value="\$448.00"/> |

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

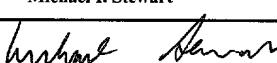
| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|---|----------------------|
| 105 | 130 | 205 65 Surcharge - late filing fee or oath | <input type="text"/> |
| 127 | 50 | 227 25 Surcharge - late provisional filing fee or cover sheet | <input type="text"/> |
| 139 | 130 | 139 130 Non - English specification | <input type="text"/> |
| 147 | 2,520 | 147 2,520 For filing a request for ex parte reexamination | <input type="text"/> |
| 112 | 920* | 112 920* Requesting publication of SIR prior to Examiner action | <input type="text"/> |
| 113 | 1,840* | 1,840* Requesting publication of SIR after Examiner action | <input type="text"/> |
| 115 | 110 | 215 55 Extension for reply within first month | <input type="text"/> |
| 116 | 400 | 216 200 Extension for reply within second month | <input type="text"/> |
| 117 | 920 | 217 460 Extension for reply within third month | <input type="text"/> |
| 118 | 1,440 | 218 720 Extension for reply within fourth month | <input type="text"/> |
| 128 | 1,960 | 228 980 Extension for reply within fifth month | <input type="text"/> |
| 119 | 320 | 219 160 Notice of Appeal | <input type="text"/> |
| 120 | 320 | 220 160 Filing a brief in support of an appeal | <input type="text"/> |
| 121 | 280 | 221 140 Request for oral hearing | <input type="text"/> |
| 138 | 1,510 | 138 1,510 Petition to institute a public use proceeding | <input type="text"/> |
| 140 | 110 | 240 55 Petition to revive - unavoidable | <input type="text"/> |
| 141 | 1,280 | 241 640 Petition to revive - unintentional | <input type="text"/> |
| 142 | 1,280 | 242 640 Utility issue fee (or reissue) | <input type="text"/> |
| 143 | 460 | 243 230 Design issue fee | <input type="text"/> |
| 144 | 620 | 244 310 Plant issue fee | <input type="text"/> |
| 122 | 130 | 122 130 Petitions to the Commissioner | <input type="text"/> |
| 123 | 50 | 123 50 Processing fee under 37 CFR § 1.17(q) | <input type="text"/> |
| 126 | 180 | 126 180 Submission of Information Disclosure Statement | <input type="text"/> |
| 581 | 40 | 581 40 Recording each patent assignment per property (times number of properties) | <input type="text"/> |
| 146 | 740 | 246 370 Filing a submission after final rejection (37 CFR § 1.129(a)) | <input type="text"/> |
| 149 | 740 | 249 370 For each additional invention to be examined (37 CFR § 1.129(b)) | <input type="text"/> |
| 179 | 740 | 279 370 Request for Continued Examination (RCE) | <input type="text"/> |
| 169 | 900 | 169 900 Request for expedited examination of a design application | <input type="text"/> |
| Other fee (specify) _____ | | | <input type="text"/> |

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

SUBMITTED BY

Complete (if applicable)

| | | | | | |
|-------------------|---|-----------------------------------|--------|-----------|------------------|
| Name (Print/Type) | Michael I. Stewart | Registration No. (Attorney/Agent) | 24,973 | Telephone | (416) 575-1155 |
| Signature |  | | | Date | January 11, 2002 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231